INTERNATIONAL TELECOMMUNICATION UNION

WRC-2000 WORLD RADIOCOMMUNICATION CONFERENCE

Addendum 5 to Document 12-E
6 April 2000
Original: English

ISTANBUL, 8 MAY – 2 JUNE 2000

PLENARY MEETING

United States of America

PROPOSALS FOR THE WORK OF THE CONFERENCE

PROPOSALS RELATING TO PP-98 RESOLUTIONS

Resolution 86, the Plenipotentiary Conference (Minneapolis, 1998) - Improving the satellite coordination and notification process

Proposal to modify Appendix S5 to the Radio Regulations to implement, with respect to geostationary-satellite networks operating in the fixed-satellite service in certain frequency bands, a coordination threshold based on a predetermined coordination arc

Background information

The 1998 Plenipotentiary Conference agreed through Resolution 86 on the need for improved coordination and notification of satellite networks. While proposals are being made to this Conference for temporary measures to deal with the current backlog of coordination requests, there is a need to improve the process to make it more efficient and effective on a long-term basis.

Working Party 4A, at its February 2000 meeting, developed a draft new Recommendation that provides the technical basis for using a coordination arc in certain frequency bands as the primary means of identifying potentially affected GSO FSS networks for coordination with other GSO FSS networks. Working Party 4A also recognized that not all systems within the coordination arc would be affected. It was also recognized that some GSO FSS systems outside of the coordination arc might want to be included in coordination based upon a calculated increase in noise temperature greater than 6%.

The following modifications to Appendix S5 to the Radio Regulations would implement such a procedure:

MOD USA/12/159

TABLE S5-1

Technical conditions for coordination
(see Article **S9**)

Reference of Article S9	**Case**	**Frequency bands (and Region) of the service for which coordination is sought**	**Threshold/condition**	**Calculation method**	**Remarks**
No. **S9.7** GSO/GSO	A station in a satellite network using the geostationary-satellite orbit (GSO), in any space radiocommunication service, in a frequency band and in a Region where this service is not subject to a Plan, in respect of any other satellite network using that orbit, in any space radiocommunication service in a frequency band and in a Region where this service is not subject to a Plan, with the exception of the coordination between earth stations operating in the opposite direction of transmission	1)3 400-4 200 MHz and 5 850-6 725 MHz 2)10.95-11.2, 11.45-11.7, 11.7-12.2 (Region 2) 12.5-12.75 (Regions 1 and 3) 12.7-12.75 (Region 2) and 13.75-14.5 GHz	1)Any network in the fixed-satellite service with a space station within an orbital arc of ±10 degrees of the orbital position of a proposed network in the fixed-satellite service 2)Any network in the fixed-satellite service with a space station within an orbital arc of ±9 degrees of the orbital position of a proposed network in the fixed-satellite service		With respect to the bands in items 1, 2, and 3; coordination will be required with a network having an orbital position outside the arcs where the administration responsible for that network requests to be included in the coordination process and demonstrates that the threshold value for coordination calculated in accordance with Appendix **S8** exceeds 6% With respect to the bands in items 1, 2, and 3; coordination will not be required with a network having an orbital position inside the arcs where the administration requesting coordination or the

		3)17.7-20.2 GHz and 27.5-30 GHz	3)Any network in the fixed-satellite service with a space station within an orbital arc of ±8 degrees of the orbital position of a proposed network in the fixed-satellite service		administration responsible for an affected network demonstrates that the threshold value for coordination calculated in accordance with Appendix **S8** does not exceed 6%. A geostationary-satellite network that is the subject of such a demonstration would be considered a network for which coordination would need to be effected, until such time as the demonstration is agreed or confirmed between the concerned administrations
		4)All~~Any~~ frequency bands, other than those in items 1, 2 and 3, allocated to a space service, where this service is not subject to a Plan; and the bands in items 1), 2) and 3) where the radio service of the proposed network or affected networks is other than the fixed-satellite service	4)Value of $\Delta T/T$ exceeds 6%	4)Appendix **S8**	

Reasons: The 1998 Plenipotentiary Conference agreed through Resolution 86 on the need for improved coordination and notification of satellite networks. While proposals are being made to this Conference for temporary measures to deal with the current backlog of coordination requests, there is a need to improve the process to make it more efficient and effective on a long-term basis. This proposal provides a simplified method of identifying affected administrations by using a coordination arc in certain frequency bands as the primary means of identifying potentially affected GSO FSS networks for coordination with respect to other GSO FSS networks. It is recognized that not all systems within the coordination arc would be affected. It is also recognized that some GSO FSS systems outside of the coordination arc might want to be included in coordination based upon a calculated increase in noise temperature greater than 6%.